

In the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-12 (cancelled)

13. (new) A measuring sonde for a hydrocarbon well, the sonde comprising a main body, a downstream arm, and an upstream arm, at least one of said arms being fitted with measurement means for determining the characteristics of the fluid flowing in the well, wherein said downstream and upstream arms are connected:
- to the main body respectively via first and second sliding pivot links (A and E); and
 - to respectively first and second ends of a skid via first and second pivot links (B and D).
14. (new) The measuring sonde according to claim 13, wherein the pivoting of the downstream and upstream arms relative to the skid is limited by the presence of abutments on the first and second pivot links.
15. (new) The measuring sonde according to claim 13, having a secondary arm connected firstly to the main body via a third pivot link (F) and secondly to the skid via a third sliding pivot link (C).
16. (new) The measuring sonde according to claim 15, wherein the secondary arm includes optical measurement means.
17. (new) The measuring sonde according to claim 15, wherein the secondary arm is constituted by two parallel blades.
18. (new) The measuring sonde according to claim 15, wherein the secondary arm can be received inside the downstream arm.

19. (new) The measuring sonde according to claim 13, wherein the downstream arm and/or the upstream arm is/are constituted by parallel blades interconnected by bridges.
20. (new) The measuring sonde according to claim 13, wherein the axis of the main body is off-center relative to the axis of the well.
21. (new) The measuring sonde according to claim 13, wherein the downstream and upstream arms are pivoted relative to the main body in a closed position in which the arms are received inside said main body and an open position in which said arms extend across the stream flowing along the well.
22. (new) The measuring sonde according to claim 13, wherein the downstream arm and/or the upstream arm is/are connected to a motor module enabling arm movement relative to the main body to be controlled, said motor module being deactivatable.
23. (new) The measuring sonde according to claim 22, wherein the connection between the motor module and the downstream and/or upstream arms is separable.
24. (new) The measuring sonde according to claim 13, wherein the upstream arm has measurement means for measuring the speed of the fluid flowing in the well.